


```

sequence extracted from NCBI backbone
REFERENCE
#note
A36007
#authors
Heller, R.A.; Song, K.; Onasch, M.A.; Fischer, W.H.; Chang, D.; Ringold, G.M.
#journal
Proc. Natl. Acad. Sci. U.S.A. (1990) 87:6151-6155
#title
Complementary DNA cloning of a receptor for tumor necrosis factor and demonstration of a shed form of the receptor.
#cross-references
MUTID:90349572
#accession
A36007
#status
Preliminary
#molecule-type
mRNA
#residues
116-140,'P',142-195,'R',197-362,'T',364-461 ##label HEL
#cross-references
GB:M5857
REFERENCE
A23666
#authors
Loetscher, H.; Schlaefer, E.J.; Lahm, H.W.; Pan, Y.C.E.; Lesslauer, W.; Brockhaus, M.
#journal
J. Biol. Chem. (1990) 265:20131-20138
#title
Purification and partial amino acid sequence analysis of two distinct tumor necrosis factor receptors from HL60 cells.
#cross-references
MUTID:91056048
#accession
A23666
#status
Preliminary
#molecule-type
protein
#residues
23-40;65-69;136-141;300-306 ##label LOE
REFERENCE
A35010
#authors
Engelmann, H.; Novick, D.; Wallach, D.
#journal
J. Biol. Chem. (1990) 265:1531-1536
#title
Two tumor necrosis factor-binding proteins purified from human urine. Evidence for immunological cross-reactivity with cell surface tumor necrosis factor receptors.
#cross-references
MUTID:90110215
#accession
B35010
#status
Preliminary
#molecule-type
protein
#residues
27-31 ##label ENG
REFERENCE
I38094
#authors
Kuhnert, P.; Kemper, O.; Wallach, D.
#journal
Gene (1994) 150:381-386
#title
Cloning, sequencing and partial functional characterization of the 5' region of the human p75 tumor necrosis factor receptor-encoding gene (TNF-R).
#cross-references
MUTID:95121934
#accession
I38094
#status
Preliminary; translated from GB/EMBL/DBJ
#molecule-type
DNA
#residues
1-37 ##label RES
#cross-references
EMBL:X80021; NID:g66044; CDS_PID:g825701
'OTCS
GDB:TNFR2
#cross-references
GDB:125914
#map_position
1p36.2-1p36.2
#introns
26/3
#note
The list of introns is incomplete
CLASSIFICATION
#superfamily
tumor necrosis factor receptor type 2; NGF receptor repeat homology
#duplication
receptor; transmembrane protein
KEYWORDS
#domain
signal sequence #status
predicted #label
SIG\
#product
tumor necrosis factor receptor type 2 #status
experimental #label
MAT\
#domain
NGF receptor repeat homology #label
NG1\
#domain
NGF receptor repeat homology #label
NG2\
#domain
NGF receptor repeat homology #label
NG3\
#domain
NGF receptor repeat homology #label
NG4\
#domain
transmembrane #status
predicted #label
TMN\
#domain
intracellular #status
predicted #label
INT\
#binding-site
carboxylate (Asn) (covalent) #status
predicted
FEATURE
1-22
23-416
40-76
78-119
120-162
164-201
262-279
280-461
171,193
SUMMARY
#length
461 #molecular-weight
48291 #checksum
5724
Query Match 13.1%; Score 398; DB 6; Length 461;
Best Local Similarity 43.8%; Pred. No. 3.16e-47;
Matches 63; Conservative 19; Mismatches 55; Indels 7; Gaps 6;

```

Db	45	yyadqla-gmccskspqghakvctktsdtdscdsstyqlmwvpcscgscrsd	103
Qy	31	YDEETSHQLCDKCPETIYKQHTAKMKITVCAPCPDHYTDSMTSDECLCYSPVCKEL	90
Db	104	qvetaqtreqnarictorpgwcalakqegcrlcaplkrpfgfvaypgetsdvckp	163
Qy	91	QYVQKQENRHTNRKCECKEGRY--LEI-EPC-L-KH-RSCPFGVQAGTGERNTVCKR	144
Db	164	capptfentssdcicrphicnv	187
Qy	145	CPDGFSENSTSKAPCRKHTNCSV	168

RESULT	2		
ENTRY	148854		
TITLE	gene murine tumour necrosis factor receptor 2 protein - mouse (fragment)		
ORGANISM	#formal_name Mus musculus #common_name house mouse		
DATE	02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 02-Jul-1996		
ACCESSIONS	148854		
REFERENCE	148854		
#authors	Powell, E.E.; Wicker, L.S.; Peterson, L.B.; Todd, J.A.		
#journal	Mamm. Genome (1994) 5:726-727		
#title	Allelic variation of the type 2 tumor necrosis factor receptor gene.		
#accession	#cross-references MIMID:95178648		
##status	I48854		
##molecule_type	preliminary; translated from GB/EMBL/DBJ		
##residues	1-459 ##label RES		
##cross-references	EMBL:X76401; NID:g433830; CDS_PID:g433831		
GENETICS	##note		
SUMMARY	gene name murine tumour necrosis factor receptor 2 #length 459 #checksum 3156		
Query Match	12.4%; Score 377; DB 14; Length 459;		
Best Local Similarity	41.5%; Pread. No. 1,46e-43;		
Matches	66; Conservative 21; Mismatches 61; Indels 11; Gaps 7;		
Db	37	gmccakpppgyvkfhfncstsdvcaasmytqvwngfrciscscscsdqyetrac	96
Qy	38	QLCDKPCPETIYKQHTAKMKITVCAPCPDHYTDSMTSDECLCYSPVCKELQYVQKQEC	97
Db	97	tkqgnrcaaeagrycalkhsgscrcqcmrlkcgpgfvaastrpangvclkapcgtf	156
Qy	98	NRTNRKCECKEGRY--LEIEF--CLKH-R-S-CPGFGVQAGTGERNTVCKRCPDGF	150
Db	157	sdtstsdvcrphicsl--laip--gnastdvcapes	191
Qy	151	SNETSSKAPCRKHTNCSVFLLLTQGNMTHDICSNS	189

ENTRY	3
TITLE	B38634
ORGANISM	#type complete
DATE	tumor necrosis factor receptor type 2 precursor - mouse
	#formal_name Mus musculus #common_name house mouse
	30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 18-Oct-1996
ACCESSIONS	B38634
REFERENCE	B38634; A40254; S54816
#authors	Levis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, A38634
#journal	G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
#title	Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
	Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific.
#cross-references	MIMID:91187885
#accession	B38634
##molecule_type	mRNA
##residues	1-474 ##label LEW
##cross-references	GB:M60409

```

REFERENCE      A40254
#authors      Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan, C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A. Mol. Cell. Biol. (1991) 11:3020-3026
#journal      Molecular cloning and expression of the type 1 and type 2 murine receptors for tumor necrosis factor.
#title        KISSONERIGHTS, M.: Fellowes, R.; Feldmann, M.; Chernaiovsky, Y.
#cross-references EMBL:9124618
#accession    A40254
##molecule_type mRNA
##residues    1-474 #label GOO
##cross-references GB:M60469

REFERENCE      S54816
#authors      Kissomerghts, M.; Fellowes, R.; Feldmann, M.; Chernaiovsky, Y.
#submission   submitted to the EMBL Data Library, May 1995
#description   Characterization of the promoter region of the murine p75-TNFR receptor.
#accession    S54816
##status      preliminary
##molecule_type DNA
##residues    1-22 #label KIS
##cross-references EMBL:X87128

CLASSIFICATION
#superfamily tumor necrosis factor receptor type 2; NGF receptor repeat homology

FEATURE
1-22          #domain signal sequence #status predicted #label SIG\
23-474        #product tumor necrosis factor receptor type 2 #status predicted #label NAT\
40-77         #domain NGF receptor repeat homology #label NG1\
79-120        #domain NGF receptor repeat homology #label NG2\
166-203       #domain NGF receptor repeat homology #label NG4\
SUMMARY       #length 474 #molecular-weight 50319 #checksum 7767

Query Match           12.4%; Score 375; DB 6; length 474;
Best Local Similarity 41.5%; Pred. NO.3.24e-43;
Matches 66; Conservative 21; Mismatches 61; Indels 11; Gaps 7;

Db 52 qmcacckcpqgykhfnciktsdvcadcaasmtygwnqfrtclscsssectdqyelrac 111
|: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 38 QLICDKRCPPTLYLKQHKTAKMTKVCAPCDPHRYTDSMHSDECLVCSPPCKRLGYVKNEC 97
|: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 112 tkqgnrvaceagrycalktshsgscrqcmrlskcpgpfvassrapngnvlckacaptf 171
|: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 98 NRTHNRVCEKEGKY--LEIEF--CLKH-R-S-CPPGFVGVOAGTPERTVCKRCPDGEF 150
|: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 172 sdtstsvcrphicisl--lalp--gnastdvcpes 206
|: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
151 SNETSSKAPCRKRHTNCVSFGLLLTQKGNATHDNICGSNS 189

RESULT 4
ENTRY   A60771 #type complete
TITLE   B-cell activation protein CD40 precursor - human
ALTNAME ALTERNATE_NAMES
ORGANISM HOMO SAPIENS
DATE     03-Jun-1993 #sequence_revision 03-Feb-1994 #text_change 06-Sep-1996
ACCESSIONS S04460; A60771
REFERENCE  S04460
#authors   Stamenkovic, I.; Clark, E.A.; Seed, B.
#journal   EMBO J. (1989) 8:1403-1410
#title     A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas
#cross-references M0ID:89356608
#accession S04460
##molecule_type mRNA
##residues 1-277 #label STA
##cross-references EMBL:X60592

REFERENCE  A60771
#authors   Braesch-Andersen, S.; Paulie, S.; Koho, H.; Nika, H.; Aspenstrom, P.; Perlmann, P.
#journal   J. Immunol. (1989) 142:562-567
```

[illegible]

OY 98 NRTNHRVCECKEGRY-L--EIEFCLKHRSCPPGFGVYQAGTPERNVTCKRCRCPDGFSSNET 154

Db 156 slfckypwtscdknlevlqkqtsqtnvlg 187

OY 155 SSKAPCRKHTNCSVFGLLTQKGNATHDNICS 186

RESULT 6

ENTRY A46476 #type complete

TITLE CD40 - mouse

ORGANISM #formal_name Mus musculus #common_name house mouse

DATE 18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 18-Nov-1994

ACCESSIONS A46476

REFERENCE A46476

#authors Torres, R.M.; Clark, E.A.

#journal J. Immunol. (1992) 148:620-626

#title Differential increase of an alternatively polyadenylated mRNA species of murine CD40 upon B lymphocyte activation.

*cross-references MUID:92105763

accession A46476

#status Preliminary

##molecule_type mRNA

##residues 1-305 ##label TOR

##cross-references NCBI:75206:1

##note sequence extracted from NCBI backbone

SUMMARY #length 305 #molecular_weight 33617 #checksum 5203

Query Match 9.7%; Score 294; DB 14; Length 305;

Best Local Similarity 38.8%; Pred. No. 2,21e-29;

Matches 59; Conservative 20; Mismatches 65; Indels 8; Gaps 6;

Db 38 cdllpgsrlshatalektqchpdsqsfagwretrchqhncepn-qglt-vkqeg 95

OY 41 CDKCPGTYLKQHCCTAKMKWTVCAPCPDHYTDSMHTSDCLCSPVCKELQYKQEC 97

Db 96 taedtyctckeghcskdeacaghpqclpfgymematetdthcpvpyffngs 155

OY 98 NRTNHRVCECKEGRY-L--EIEFCLKHRSCPPGFGVYQAGTPERNVTCKRCRCPDGFSSNET 154

Db 156 slfckypwtscdknlevlqkqtsqtnvlg 187

OY 155 SSKAPCRKHTNCSVFGLLTQKGNATHDNICS 186

RESULT 7

ENTRY GOVZML #type complete

TITLE T2 protein - myxoma virus (strain Lausanne)

ORGANISM #formal_name myxoma virus

DATE 31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change 26-Apr-1996

ACCESSIONS A40566

REFERENCE A40566

#authors Upton, C.; Macen, J.L.; Schreiber, M.; McFadden, G.

#journal Virology (1991) 184:370-382

#title Myxoma virus expresses a secreted protein with homology to the tumor necrosis factor receptor gene family that contributes to viral virulence.

*cross-references MUID:91335768

accession A40566

#molecule_type DNA

##residues 1-326 ##label UPT

##cross-references GB:M37976

CLASSIFICATION #superfamily myxoma virus T2 protein; NGF receptor repeat homology

KEYWORDS glycoprotein

FEATURE 64-105 #domain NGF receptor repeat homology #label NG2\

106-147 #domain NGF receptor repeat homology #label NG3\

66,181,205,238 #binding_site carbohydrate (asn) (covalent) #status predicted

SUMMARY #length 326 #molecular_weight 35208 #checksum 9255

Query Match 8.9%; Score 269; DB 2; Length 326;

Best Local Similarity 33.8%; Pred. No. 3.14e-25;

Matches 47; Conservative 25; Mismatches 58; Indels 9; Gaps 8;

Db 40 ctscppgsyaslcpgsdvcspckneftaetnnapacvsgrgrctghlaesgdcrt 99

OY 41 CDKCPGTYLKQHCCTAKMKWTVCAPCPDHYTDSMHTSDCLCSPVCKELQYKQECNRT 100

Db 100 rdlvcdasagncyllygqgcrlcapqtkcpagysv-ghrtgdvlckcpptydsdv 158

OY 101 HNRVCECKEGRY-L--EIEFCLKHRSCPPGFGVYQAGTPERNVTCKRCRCPDGFSSNET 154

Db 159 sstetctsfnylsvefnl 177

OY 155 SSKAPCRKHTNC-SV-FGL 171

RESULT 8

ENTRY B43692 #type complete

TITLE T2 protein - rabbit fibroma virus

ORGANISM #formal_name rabbit fibroma virus, Shope fibroma virus

DATE 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 26-Apr-1996

ACCESSIONS B43692

REFERENCE B43692

#authors Upton, C.; Delange, A.M.; McFadden, G.

#journal Virology (1987) 160:20-30

#title Tumorigenic poxviruses: genomic organization and DNA sequence of the telomeric region of the Shope fibroma virus genome.

accession B43692

#status Preliminary

##molecule_type DNA

##residues 1-325 ##label UPT

##cross-references GB:M17433

CLASSIFICATION #superfamily NGF receptor repeat homology

FEATURE 64-105 #domain NGF receptor repeat homology #label NG2\

106-147 #domain NGF receptor repeat homology #label NG3

SUMMARY #length 325 #molecular_weight 35132 #checksum 4629

Query Match 8.6%; Score 260; DB 6; Length 325;

Best Local Similarity 30.5%; Pred. No. 9.43e-24;

Matches 51; Conservative 31; Mismatches 77; Indels 8; Gaps 5;

Db 40 caschpgfyasrlcpgsntlvcspecdqftaetnnapacvsgrgrctghlaesgdcrt 99

OY 41 CDKCPGTYLKQHCCTAKMKWTVCAPCPDHYTDSMHTSDCLCSPVCKELQYKQECNRT 100

Db 100 hdlvncstgncyllygqgcrlcapqtkcpagysv-ghrtgdvlckcpptydsdv 158

OY 101 HNRVCECKEGRY-L--EIEFCLKHRSCPPGFGVYQAGTPERNVTCKRCRCPDGFSSNET 154

Db 159 sptercstsfnylsvefnl 204

OY 155 SSKAPCRKHTNCSVFGLLTQKGNATHDNICSSESTQKCGIDVTL 201

RESULT 9

ENTRY I54182 #type complete

TITLE tumor necrosis factor receptor 2-related protein - human

ORGANISM #formal_name Homo sapiens #common_name man

DATE 24-May-1996 #sequence_revision 24-May-1996 #text_change 24-May-1996

ACCESSIONS I54182

REFERENCE I54182

#authors Baens, M.; Chaffanet, M.; Cassiman, J.J.; Van den Berghe, H.; Maynen, P.

#journal Genomics (1993) 16:214-218

#title Construction and evaluation of a hncDNA library of human 12p transcribed sequences derived from a somatic cell hybrid.

*cross-references MUID:93252381

accession I54182

#status Preliminary; translated from GB/EMBL/DBJ


```

Db      168 -chagfifresccpcshckhneac 191
      1 111 1 : : 1:1: 1
Oy      144 RCPDGFSSNETSSKA-P-CRKHTNC 166

RESULT      13
ENTRY
TITLE      GOMST1      #type complete
ALTERNATE_NAMES
ORGANISM   tumor necrosis factor receptor type 1 precursor - mouse
DATE       #format_name Mus musculus #common_name house mouse
           30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change
           18-Oct-1996
REFERENCE   A38634; B40254; S16677; S19021; I54532
#authors   Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice,
#journal    G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
#title      Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
#cross-references MIMD:91246185
#accession   A38634
#residues   1-454 ##label LEW
#molecule_type mRNA
REFERENCE   A40254
#cross-references GB:M60468
#authors    Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brannan,
#journal     C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.
#title      Mol. Cell. Biol. (1991) 11:3020-3026
#cross-references MIMD:91246186
#accession   B40254
#molecule_type mRNA
#residues   1-454 ##label G02
#cross-references GB:M60468
REFERENCE   S16677
#authors    Barrett, K.; Taylor-Fishwick, D.A.; Cope, A.P.; Kissonerghis,
#journal     A.M.; Gray, P.W.; Feldmann, M.; Foxwell, B.M.J.
#title      Eur. J. Immunol. (1991) 21:1649-1656
#cross-references MIMD:91285014
#accession   S16677
#molecule_type mRNA
#residues   1-454 ##label BAR
#cross-references EMBL:X59238
REFERENCE   S19021
#authors    Rothe, J.G.; Brockhaus, M.; Gentz, R.; Lesslauer, W.
#journal     Immunogenetics (1991) 34:338-340
#title      Molecular cloning and expression of the mouse Tnf receptor
           type b.
#cross-references MIMD:92039815
#accession   S19021
#molecule_type mRNA
#residues   1-454 ##label ROT
#cross-references EMBL:X57796
REFERENCE   I54532
#authors    Bebo, B.F.
#journal     Immunogenetics (1994) 39:450-451
#title      Nucleotide sequence of the TNF type I receptor from a mouse
           endodermoma cell line.
#cross-references MIMD:94245292
#accession   I54532
#status      translated from GB/EMBL/DBJ
#molecule_type mRNA
#residues   1-454 ##label RES
#cross-references GB:L26349; NID:9430732; CDS_PID:9430733
COMMENT     This protein is one of two distantly related receptors for both
           TNF-alpha (cachectin) and TNF-beta (lymphotoxin).
           #superfamily tumor necrosis factor receptor type 1; NGF
           receptor repeat homology

```

```
KEYWORDS      duplication; glycoprotein; receptor; transmembrane protein  
FEATURES  
   1-29          #domain signal sequence #status predicted #label SIG\  
   30-454        #product tumor necrosis factor receptor type 1 #status  
                  predicted #label MAT\  
       30-212    #domain intracellular #status predicted #label EXT\  
       44-82     #domain NGF receptor repeat homology #label NG1\  
       84-126    #domain NGF receptor repeat homology #label NG2\  
       127-167   #domain NGF receptor repeat homology #label NG3\  
       168-204   #domain NGF receptor repeat homology #label NG4\  
       213-235   #domain transmembrane #status predicted #label MEM\  
       236-454   #domain intracellular #status predicted #label INT  
  
SUMMARY  
#length 454 #molecular-weight 50129 #checksum 4839
```

Query Match 7.3%; Score 221; DB 2; Length 454;
Best Local Similarity 33.1% Pred. No. 1,77e+17;

Matches 48; Conservative 21; Mismatches 65; Indels 11; Gaps 9;

D_b

 49 yvhnkmsicctkhkylysdpsprgvtcrecekgfittsqnylrgclscckrte 108
 |::|::||| ||| ::| :||| :||| :|||:
QY 31 YDEFTSHQLCDKCPPTGYLKHQTAK-WTVVAFPCPDHYRTDSMTSDCLCSPVCKE 89
 |::|::||| ||| ::| :||| :||| :|||:

D_b

 109 msgrveispqadkdktgcngkfgyrlsethgvcddcspping-vwtlpocketn tven 167
 |::|::||| ||| ::| :||| :||| :|||:
OY 90 LQYYK-QECNRYTHRVECEKEG---RL-EIEF-CLKHNSCPRPGFGVVQAAGRPERNTVK 143
 |::|::||| ||| ::| :||| :||| :|||:

D_b

 168 -chagffillreseycpscchkneec 191
 |::|::||| ||| ::| :||| :||| :|||:
OY 144 RCPDGFFSNETSska-P-CRKHTNC 166

RESULT 14

ENTRY TITLE	#type complete
GORTT1	tumor necrosis factor receptor type I precursor - rat
TITLE	tumor necrosis factor binding protein I (TNF blocking factor)
CONTAINS	#forma_name Ratius norvegicus #common_name Norway rat
ORGANISM	30-Jun-1992 #sequence_revision 07-Oct-1994 #text_change 05-Apr-1995
DATE	B36555
ACCESSIONS	A36555
REFERENCE	Himmeler, A.; Maurer-Fogy, I.; Kroenke, M.; Scheuenich, P.; Pfizenmaier, K.; Lantze, M.; Olsson, I.; Hauptmann, R.; Stralow, C.; Adolt, G.R. DNA Cell Biol. (1990) 9:705-715
#journal	Molecular cloning and expression of human and rat tumor necrosis factor receptor chain (p80) and its soluble derivative, tumor necrosis factor-binding protein.
#title	nucleotide sequence of complementary DNA coding for the cDNA derived from rat hepatoma cells HPH-1A
#cross-references	EMBL accession B36555
#accession	B36555
#molecule-type	mRNA
#residues	1-461 #label HIM
#cross-references	CB:M63122

COMMENT This protein is one of two known receptors for both TNF-alpha (cachectin) and TNF-beta (lymphotoxin).

CLASSIFICATION #superfamily tumor necrosis factor receptor type 1; NGF receptor repeat homology duplication; glycoprotein; receptor; transmembrane protein

KEYWORDS

FEATURE

 1-29 #domain signal sequence #status predicted #label SIG\
 30-461 #product tumor necrosis factor receptor type I #status
 predicted #label MAT\
 30-211 #domain extracellular #status predicted #label EXT\
 30-211 #product tumor necrosis factor binding protein #status
 predicted #label RBP\
 44-82 #domain NGF receptor repeat homology #label NG1\
 84-126 #domain NGF receptor repeat homology #label NG2\
 127-167 #domain NGF receptor repeat homology #label NG3\
 168-204 #domain NGF receptor repeat homology #label NG4\
 212-234 #domain transmembrane #status predicted #label MEM\
 235-461 #domain intracellular #status predicted #label INT\
 54,151,201 #binding_site carbohydrate (Asn) (covalent) #status predicted

SUMMARY #length 461 #molecular-weight 50969 #checksum 1617

